

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

1 SEQUENCE LISTING  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Tormo, Mar  
6 Tari, Ana M.  
7 Lopez-Berestein, Gabriel  
8  
9 (ii) TITLE OF INVENTION: INHIBITION OF Bcl-2 PROTEIN EXPRESSION BY  
10 LIPOSOMAL ANTISENSE OLIGODEOXYNUCLEOTIDES  
11  
12 (iii) NUMBER OF SEQUENCES: 7  
13  
14 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: Arnold, White & Durkee  
16 (B) STREET: P.O. Box 4433  
17 (C) CITY: Houston  
18 (D) STATE: Texas  
19 (E) COUNTRY: United States of America  
20 (F) ZIP: 77210  
21  
22 (v) COMPUTER READABLE FORM:  
23 (A) MEDIUM TYPE: Floppy disk  
24 (B) COMPUTER: IBM PC compatible  
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
27  
28 (vi) CURRENT APPLICATION DATA:  
29 (A) APPLICATION NUMBER: US Unknown  
30 (B) FILING DATE: Concurrently Herewith  
31 (C) CLASSIFICATION: Unknown  
32  
33 (viii) ATTORNEY/AGENT INFORMATION:  
34 (A) NAME: Wilson, Mark B.  
35 (B) REGISTRATION NUMBER: 37,259  
36 (C) REFERENCE/DOCKET NUMBER: UTXC:504  
37  
38 (ix) TELECOMMUNICATION INFORMATION:  
39 (A) TELEPHONE: (512) 418-3000  
40 (B) TELEFAX: (512) 474-7577  
41  
42  
43 (2) INFORMATION FOR SEQ ID NO:1:  
44  
45 (i) SEQUENCE CHARACTERISTICS:  
46 (A) LENGTH: 18 base pairs

ENTERED

INPUT SET: S13733.raw

47 (B) TYPE: nucleic acid  
48 (C) STRANDEDNESS: single  
49 (D) TOPOLOGY: linear  
50

51 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

52  
53 CAGCGTGCAG CATCCTTC

18

54  
55  
56 (2) INFORMATION FOR SEQ ID NO:2:

57  
58 (i) SEQUENCE CHARACTERISTICS:  
59 (A) LENGTH: 20 base pairs  
60 (B) TYPE: nucleic acid  
61 (C) STRANDEDNESS: single  
62 (D) TOPOLOGY: linear  
63  
64

65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

66  
67 ACGGTCCGCC ACTCCTTCCC

20

68  
69  
70 (2) INFORMATION FOR SEQ ID NO:3:

71  
72 (i) SEQUENCE CHARACTERISTICS:  
73 (A) LENGTH: 16 base pairs  
74 (B) TYPE: nucleic acid  
75 (C) STRANDEDNESS: single  
76 (D) TOPOLOGY: linear  
77

78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

79  
80 CTGAAGGGCT TCTTCC

16

81  
82  
83 (2) INFORMATION FOR SEQ ID NO:4:

84  
85 (i) SEQUENCE CHARACTERISTICS:  
86 (A) LENGTH: 5086 base pairs  
87 (B) TYPE: nucleic acid  
88 (C) STRANDEDNESS: single  
89 (D) TOPOLOGY: linear  
90

91 (ix) FEATURE:  
92 (A) NAME/KEY: CDS  
93 (B) LOCATION: 1459..2175  
94

95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

96  
97 GCGCCCGCCC CTCCGCGCCG CCTGCCGCC CGCCCGCCGC GCTCCCGCCC GCCGCTCTCC

60

98  
99 GTGGCCCCGC CGCGCTGCCG CGGCCGCCGC TGCCAGCGAA GGTGCCGGGG CTCCGGGCC

120

## INPUT SET: SI3733.raw

100 TCCCTGCCGG CGGCCGTCAG CGCTCGGAGC GAACTGCGCG ACGGGAGGTC CGGGAGGCGA 180  
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102 CCGTAGTCGC GCCGCCGCGC AGGACCAGGA GGAGGAGAAA GGGTGCAGCAG CCCGGAGGCG 240  
103  
104 GGGTGCAGCG GTGGGGTGCA GCGGAAGAGG GGGTCCAGGG GGGAGAACTT CGTAGCAGTC 300  
105  
106 ATCCTTTTA GGAAAAGAGG GAAAAAAATAA AACCCCTCCCC CACCACCTCC TTCTCCCCAC 360  
107  
108 CCCTCGCCGC ACCACACACCA GCGCGGGCTT CTAGCGCTCG GCACCGGGCG GCGAGGCGCG 420  
109  
110 TCCTGCCTTC ATTTATCCAG CAGCTTTTCG GAAAATGCAT TTGCTGTTCG GAGTTTAATC 480  
111  
112 AGAAGACGAT TCCTGCCTCC GTCCCCGGCT CCTTCATCGT CCCATCTCCC CTGTCTCTCT 540  
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114 CCTGGGGAGG CGTGAAGCGG TCCCGTGGAT AGAGATTCAAT GCCTGTGTCC GCGCGTGTGT 600  
115  
116 GCGCGCGTAT AAATTGCCGA GAAGGGGAAA ACATCACAGG ACTTCTGCGA ATACCGGACT 660  
117  
118 GAAAATTGTA ATTCATCTGC CGCCGCCGCT GCCAAAAAAA AACTCGAGCT CTTGAGATCT 720  
119  
120 CCGGTTGGGA TTCCCTGCCGA TTGACATTTC TGTGAAGCAG AAGTCTGGGA ATCGATCTGG 780  
121  
122 AAATCCTCCT AATTTTTACT CCCTCTCCCC CCGACTCCTG ATTCAATTGGG AAGTTTCAAA 840  
123  
124 TCAGCTATAA CTGGAGAGTG CTGAAGATTG ATGGGATCGT TGCCTTATGC ATTTGTTTTG 900  
125  
126 GTTTTACAAA AAGGAAACTT GACAGAGGAT CATGCTGTAC TTAAAAAAATA CAAGTAAGTC 960  
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128 TCGCACAGGA AATTGGTTTA ATGTAACATT CAATGGAAAC CTTTGAGATT TTTTACTTAA 1020  
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130 AGTGCATTGAGTCAAGGAACTT ATTCCAGGC AGCTTAATAC ATTGTTTTTA GCCGTGTTAC 1080  
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132 TTGTAGTGTG TATGCCCTGC TTTCACTCAG TGTGTACAGG GAAACGCCACC TGATTTTTA 1140  
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134 CTTATTAGTT TGTTTTTCT TTAACCTTTC AGCATCACAG AGGAAGTAGA CTGATATTAA 1200  
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136 CAATACTTAC TAATAATAAC GTGCCCTCATG AAATAAAGAT CCGAAAGGAA TTGGAATAAA 1260  
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138 AATTCCCTGC GTCTCATGCC AAGAGGGAAA CACCAGAAC AAGTGTCCG CGTGATTGAA 1320  
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140 GACACCCCT CGTCCAAGGAA TGCAAAGCAC ATCCAATAAA ATAGCTGGAT TATAACTCCT 1380  
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142 CTTCTTCTC TGGGGGCCGT GGGGTGGAG CTGGGGCGAG AGGTGCCGTT GGCCCCCGTT 1440  
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144 GCTTTCCCTC TGGGAAGG ATG GCG CAC GCT GGG AGA ACG GGG TAC GAC AAC 1491  
145 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn  
146 1 5 10  
147  
148 15 20 25  
149 CGG GAG ATA GTG ATG AAG TAC ATC CAT TAT AAG CTG TCG CAG AGG GGC 1539  
150 Arg Glu Ile Val Met Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly  
151  
152

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/726,211DATE: 11/09/96  
TIME: 16:23:26

INPUT SET: S13733.raw

153	TAC GAG TGG GAT GCG GGA GAT GTG GGC GCC GCG CCC CCG GGG GCC CCC	1587
154	Tyr Glu Trp Asp Ala Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala	
155	30 35 40	
156		
157	CCC GCA CCG GGC ATC TTC TCC TCC CAG CCC GGG CAC ACG CCC CAT CCA	1635
158	Pro Ala Pro Gly Ile Phe Ser Ser Gln Pro Gly His Thr Pro His Pro	
159	45 50 55	
160		
161	GCC GCA TCC CGC GAC CCG GTC GCC AGG ACC TCG CCG CTG CAG ACC CCG	1683
162	Ala Ala Ser Arg Asp Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro	
163	60 65 70 75	
164		
165	GCT GCC CCC GGC GCC GCG GGG CCT GCG CTC AGC CCG GTG CCA CCT	1731
166	Ala Ala Pro Gly Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro	
167	80 85 90	
168		
169	GTG GTC CAC CTG GCC CTC CGC CAA GCC GGC GAC GAC TTC TCC CGC CGC	1779
170	Val Val His Leu Ala Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg	
171	95 100 105	
172		
173	TAC CGC GGC GAC TTC GCC GAG ATG TCC AGC CAG CTG CAC CTG ACG CCC	1827
174	Tyr Arg Gly Asp Phe Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro	
175	110 115 120	
176		
177	TTC ACC GCG CGG GGA CGC TTT GCC ACG GTG GTG GAG GAG CTC TTC AGG	1875
178	Phe Thr Ala Arg Gly Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg	
179	125 130 135	
180		
181	GAC GGG GTG AAC TGG GGG AGG ATT GTG GCC TTC TTT GAG TTC GGT GGG	1923
182	Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly	
183	140 145 150 155	
184		
185	GTC ATG TGT GTG GAG AGC GTC AAC CGG GAG ATG TCG CCC CTG GTG GAC	1971
186	Val Met Cys Val Glu Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp	
187	160 165 170	
188		
189	AAC ATC GCC CTG TGG ATG ACT GAG TAC CTG AAC CGG CAC CTG CAC ACC	2019
190	Asn Ile Ala Leu Trp Met Thr Glu Tyr Leu Asn Arg His Leu His Thr	
191	175 180 185	
192		
193	TGG ATC CAG GAT AAC GGA GGC TGG GAT GCC TTT GTG GAA CTG TAC GGC	2067
194	Trp Ile Gln Asp Asn Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly	
195	190 195 200	
196		
197	CCC AGC ATG CGG CCT CTG TTT GAT TTC TCC TGG CTG TCT CTG AAG ACT	2115
198	Pro Ser Met Arg Pro Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr	
199	205 210 215	
200		
201	CTG CTC AGT TTG GCC CTG GTG GGA GCT TGC ATC ACC CTG GGT GCC TAT	2163
202	Leu Leu Ser Leu Ala Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr	
203	220 225 230 235	
204		
205	CTG AGC CAC AAG TGAAGTCAAC ATGCCTGCC CAAACAAATA TGCAAAAGGT	2215

INPUT SET: S13733.raw

206 Leu Ser His Lys  
207  
208  
209 TCACTAAAGC AGTAGAAATA ATATGCATTG TCAGTGATGT ACCATGAAAC AAAGCTGCAG 2275  
210 GCTGTTAAG AAAAAATAAC ACACATATAA ACATCACACA CACAGACAGA CACACACACA  
211 2335  
212 CACAACAATT AACAGTCTTC AGGCAAAACG TCGAATCAGC TATTTACTGC CAAAGGGAAA 2395  
213 214  
215 TATCATTAT TTTTACATT ATTAAGAAAA AAGATTTATT TATTTAAGAC AGTCCCATCA 2455  
216 217 2515  
218 219 2575  
220 TGGATGTTCT GTGCCTGTAA ACATAGATTC GCTTTCCATG TTGTTGGCCG GATCACCATC  
221 TGAAGAGCAG ACGGATGGAA AAAGGACCTG ATCATTGGGG AAGCTGGCTT TCTGGCTGCT 2635  
222 GGAGGCTGGG GAGAAGGTGT TCATTCACCTT GCATTTCTTT GCCCTGGGG CGTGATATTA 2695  
223 224  
225 ACAGAGGGAG GGTTCCCGTG GGGGGAAGTC CATGCCTCCC TGGCCTGAAG AAGAGACTCT 2755  
226 227 2815  
228 TTGCATATGA CTCACATGAT GCATACCTGG TGGGAGGAAA AGAGTTGGGA ACTTCAGATG  
229 GACCTAGTAC CCACTGAGAT TTCCACGCCG AAGGACAGCG ATGGGAAAAA TGCCCTTAAA 2875  
230 231 2935  
232 TCATAGGAAA GTATTTTTT AAGCTACCAA TTGTGCCGAG AAAAGCATT TAGCAATTAA  
233 TACAATATCA TCCAGTACCT TAAACCCCTGA TTGTGTATAT TCATATATTT TGGATACGCA 2995  
234 235 3055  
236 GAAGTGAACA TTTCGGTGAC TTCCGATCAG GAAGGCTAGA GTTACCCAGA GCATCAGGCC 3115  
237 238  
239 GCCACAAGTG CCTGCTTTA GGAGACCGAA GTCCGCAGAA CCTACCTGTG TCCCAGCTTG 3175  
240 241 3235  
242 GAGGCCTGGT CCTGGAACTG AGCCGGGCC TCACTGGCCT CCTCCAGGGA TGATCAACAG  
243 GGTAGTGTGG TCTCCGAATG TCTGGAAGCT GATGGATGGA GCTCAGAATT CCACTGTCAA 3295  
244 245 3355  
246 GAAAGAGCAG TAGAGGGGTG TGGCTGGCC TGTCACCCCTG GGGCCCTCCA GGTAGGCCCG  
247 248  
249 TTTTACCGTG GAGCATAGGA GCCACGGACCC TTCTTAAGAC ATGTATCACT CTAGAGGGAA 3415  
250 251 3475  
252 GAGGCAATGG CCACGGCCCA TTTTGGCTGT AGCACATGGC ACGTTGGCTG TGTGGCTTG 3535  
253 254  
255 GCCACCTGTG AGTTAAAGC AAGGCTTTAA ATGACTTTGG AGAGGGTCAC AAATCCTAAA 3595  
256 257 3655  
258 AACATTATCT TGTCACTGTA GTTTGGTTT ATTTGAAAAC CTGACAAAAA AAAAGTTCCA 3715